

Claims:

Sub A1P
5 1. Method of reducing the combustion residue of coated paper or cardboard having a predetermined brightness and opacity, characterized by replacing at least a part of the amount of conventional filler and/or coating pigment necessary for reaching the predetermined brightness and opacity with calcium carbonate.

10 2. The method according to claim 1, wherein the proportion of calcium oxalate amounts to 10 to 100 % of the total pigment.

15 3. The method according to claim 1 or claim 2, wherein a coated paper is manufactured having an ISO brightness of over 80 % and an opacity of over 80 %.

15 4. The method according to claim 3, wherein a coated paper is manufactured having an ISO brightness of over 90 % and an opacity of over 90 %.

20 5. The method according to any of the preceding claims, wherein a wood-free paper is produced.

20 6. The method according to any of claims 1 to 4, wherein a wood-containing paper is produced.

25 7. The method according to any of the preceding claims, wherein the amount of calcium oxalate is 0.1 to 90 %, calculated from the dry matter of the paper or cardboard.

8. The method according to any of the preceding claims, wherein calcium oxalate having a narrow particle size distribution is used.

30 9. The method according to claim 8, wherein the calcium oxalate has been milled to suitable particle size.

10. The method according to any of the preceding claims, wherein calcium oxalate

monohydrate is used.

11. The method according to any of the preceding claims, comprising using a second pigment or filler selected from the group consisting of calcium carbonate, calcium sulphate, aluminium silicate, kaolin and aluminium hydroxide, magnesium silicate, talc, titanium dioxide, silica and barium sulphate and mixtures thereof.

5
Sub
Add
Acomld

12. Method of reducing the wear of a paper or cardboard making wire, characterized by incorporating calcium oxalate into a paper or cardboard web or into the coating 10 colour used for coating of the web instead of conventional pigments so that the portion of calcium oxalate of the total amount of pigments is 10 to 100 %.

13. Coated, fibrous material web, characterized in that
15 – it has an ISO brightness of over 80 % and an opacity of over 80 % and
– it contains as a filler and/or pigment calcium oxalate optionally together with fillers and coating pigments, respectively.

20
14. The material web according to claim 13, wherein it has a maximum combustion residue of 35 %, calculated from the dry matter of the material.

25
15. The material web according to claim 13 or 14, wherein it is manufacture from cellulosic pulp or mechanical pulp.

16. The material web according to any of claims 13 to 15, wherein the total content of calcium oxalate is over 85 % of the dry matter of the paper.

25
17. The material web according to any of claims 13 to 16, wherein the material web is, as such, essentially non-combustible

ADD
BT

RDG Cle